



Associates □ Consulting Engineers

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August 14, 1992

SDMS Document



88405

Ms. Kathy Miller
Case Manager
Industrial Site Evaluation Element
New Jersey Department of Environmental
Protection and Energy
CN 028
401 East State Street, Floor 5
Trenton, New Jersey 08625-0028

RE: June/July 1992 Monthly Progress
Report on Remedial Activities
at the Former Hexcel Site
205 Main Street, Lodi Borough
Bergen County, New Jersey
ECRA Case No. 86009

Dear Ms. Miller:

On behalf of Hexcel Corporation, Killam Associates (Killam), has prepared this summary report of remedial activities performed at the above referenced site during the period of June 1, 1992 to August 1, 1992. This report satisfies the requirements of Paragraph 36 of the New Jersey Department of Environmental Protection and Energy (NJDEPE) conditional approval letter of July 31, 1990.

A. GROUNDWATER

Collection of Basement Seepage Water

The air stripping towers and incinerator were operated during the months of June and July, 1992. During the months of June and July, 3,850 gallons and 3,100 gallons were treated, respectively.

Upper Overburden Aquifer

No additional work was performed relating to the upper overburden aquifer.

Lower Overburden Aquifer

No additional work was performed relating to the lower overburden aquifer.

B. SOILS

Stockpiled Soil

Approximately 140 cubic yards of stockpiled soil currently exists at the Hexcel/Fine Organics facility. The soil is stockpiled on and covered with double layers of poly. The soil was generated during trench and clean-up activities performed by Heritage Remediation/Engineering. Killam collected two composite samples from the pile on July 14, 1992. The sampling results are in Appendix A. Removal and disposal arrangements for the soil are currently being initiated.

Ms. Miller
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C. GROUNDWATER TREATMENT SYSTEM OPERATION

During the period of June 1 to August 1, 1992, 8,000 gallons of basement seepage water was discharged to the PVSC. The 4,150 gallons of water collected and treated in the month of May was discharged on June 1, 1992, and the 3,850 gallons of water collected and treated during the month of June was discharged on July 2nd and 6th, 1992. Killam's licensed N-4 treatment works operators are currently overseeing Essam Saleh, the onsite operator for Hexcel, in operations. In addition, Killam plans to perform a set of efficiency tests on the treatment system to determine the effective removal at each stage. Drawdown monitoring will also be conducted once the system is fully running. The MR-2 forms and the accompanying laboratory analyses of the aforementioned discharges may be found in Appendix B of this report.

D. DENSE NON-AQUEOUS PHASE LIQUID (DNAPL)

Approximately 1,000 gallons of water (500 gallons per month) with some DNAPL were recovered during June and July of 1992. This water was derived from RW7-1 and RW7-5 and was placed in Tank H-7. Approximately 10 gallons of a DNAPL/water mixture were separated out from the 1,000 gallons of water extracted from the recovery wells.

A DNAPL Monitoring Plan is currently being prepared and will be submitted in the next monthly progress report.

E. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

The LNAPL recovery system was not operated during the months of June and July, 1992. However, the system will recommence upon issuance of the NJPDES SIU Permit.

An LNAPL Monitoring Plan is currently being prepared and will be submitted in the next monthly progress report.

F. STATUS OF PERMITS

Air Control Apparatus

Permit #01903837 is a temporary permit issued by the Department of Environmental Quality, Air Pollution Control Program. Killam discussed the expiration date of June 30, 1992 with Mr. Byron Sullivan of the Division of Environmental Quality, Metro Office. Mr. Sullivan stated that since the permit is temporary, the expiration is conditionally extended, and a new permit will eventually be received by Hexcel. Currently, a new permit has not been issued. However, the "old permit" is still applicable.

NJPDES SIU Permit

The Bureau of Industrial Discharge Permits has indicated that the Hexcel NJPDES SIU permit will be finalized at the end of August, 1992, at which time the start-up of the Groundwater Recovery System will commence.

PVSC Discharge Permit

No activities occurred during this time period.

Ms. Miller
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NJPDES Discharge to Groundwater Permit
No activity occurred during this time period.

NJPDES Discharge to Surface Water Permit
No activity occurred during this time period.

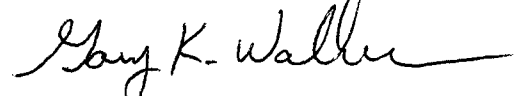
G. SCHEDULE UPDATE

A schedule summarizing the projected timetable has not been included in this month's report. Killam Associates has scheduled a meeting with the ECRA case manager and relevant staff members for the week of August 24, 1992. A revised schedule will be submitted following this meeting.

If you have any questions or comments regarding this report, please do not hesitate to contact me at (201) 912-2489.

Very truly yours,

KILLAM ASSOCIATES



Gary K. Walker
Senior Project Scientist

cc: A. William Nosil, Hexcel
James Higdon, Fine Organics
Lisa Bromberg, Esq.

DJN:mmma:PROG1

884050003

Soil Sampling Results
July 14, 1992

APPENDIX A

884050004

DRPSR DATA REVIEW CHECKLIST SUPPLEMENT

Case Name Hexcel Corp
Case Number 86009
Laboratory Name(s) Accu-Test
RP Submitting Data Hexcel Corp
Date of Document 8/14/92
Document Reviewed _____
QA/QC review complete - YES or NO

Once the QA review is complete, attach the analytical results summary sheets to this form and discard the QA/QC data. Attach this form and the summary sheets to the appropriate DRPSR Data Review Checklist or support group comments and include in the case file.

Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years.

K. Miller 8-27-92
Signature/Date

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
VOLATILE ORGANICS SUMMARY

| | | | | |
|---------------|--------------|----------------|------------------------|----------------------------|
| | | | DATA FILES ===== | ANALYSIS DATES ===== |
| CLIENT | : KILLAM | SAMPLE INITIAL | : >G0608 | 07/20/92 |
| SAMPLE# | : E218992 | SAMPLE DIL. #1 | : | |
| METHOD | : SW846 8240 | SAMPLE DIL. #2 | : | |
| LEACH BATCH # | : ZH0080 | LEACHED BLANK | : >D3294 | 07/17/92 |
| LEACH SPIKE # | : E218794LS2 | LEACHED SPIKE | : >A2798 | 07/22/92 |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|-------------|----------------------|-------------------|----------------|-------|-------------------------|-------------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| D018 | BENZENE | ND | 0.5 | 0.050 | ND | 86 | |
| D035 | 2-BUTANONE | ND | 200 | 0.10 | ND | 44 | |
| D040 | TRICHLOROETHYLENE | ND | 0.5 | 0.050 | ND | 101 | |
| D019 | CARBON TETRACHLORIDE | ND | 0.5 | 0.050 | ND | 112 | |
| D021 | CHLOROBENZENE | ND | 100 | 0.050 | ND | 95 | |
| D022 | CHLOROFORM | ND | 6.0 | 0.050 | ND | 95 | |
| D027 | 1,4-DICHLOROBENZENE | ND | 7.5 | 0.050 | ND | 106 | |
| D029 | 1,1-DICHLOROETHYLENE | ND | 0.7 | 0.050 | ND | 88 | |
| D028 | 1,2-DICHLOROETHANE | ND | 0.5 | 0.050 | ND | 102 | |
| D039 | TETRACHLOROETHYLENE | ND | 0.7 | 0.050 | ND | 94 | |
| D043 | VINYL CHLORIDE | ND | 0.2 | 0.10 | ND | 104 | |

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
 ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
 MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
 B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
 L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
 H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
 RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS (VFSCAN)

| | | | | | | |
|--------------|---|------------|-------------|---|--------|----------|
| CLIENT | : | KILLAM | Initial | : | >03067 | ANALYSIS |
| LAB SAMPLE # | : | E218992 | Dilution #1 | : | | DATE |
| MATRIX | : | SOIL | Dilution #2 | : | | |
| METHOD | : | SW846 8240 | | | | |

| COMPOUND | RESULT (ug/kg) * | MDL (ug/kg) * | Q |
|---|---------------------|------------------|---|
| 1) ACETONE | ND | 44 | |
| 2) BENZENE | ND | 22 | |
| 3) N-BUTYL ALCOHOL | ND | 1100 | |
| 4) CARBON DISULFIDE | ND | 44 | |
| 5) CARBON TETRACHLORIDE | ND | 22 | |
| 6) CHLOROBENZENE | ND | 22 | |
| 7) CYCLOHEXANONE | ND | 1100 | |
| 8) 1,2-DICHLOROBENZENE | ND | 22 | |
| 9) 2-ETHOXYETHANOL | ND | 6700 | |
| 10) ETHYL ACETATE | ND | 44 | |
| 11) ETHYLBENZENE | ND | 22 | |
| 12) ETHYL ETHER | ND | 22 | |
| 13) ISOBUTANOL | ND | 110 | |
| 14) METHYLENE CHLORIDE | ND | 22 | |
| 15) METHYL ETHYL KETONE | ND | 44 | |
| 16) METHYL ISOBUTYL KETONE | ND | 44 | |
| 17) 2-NITROPROPANE | ND | 110 | |
| 18) TETRACHLOROETHYLENE | 58 | 22 | |
| 19) TOLUENE | ND | 22 | |
| 20) 1,1,1-TRICHLOROETHANE | ND | 22 | |
| 21) 1,1,2-TRICHLOROETHANE | ND | 22 | |
| 22) 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ND | 22 | |
| 23) TRICHLOROETHYLENE | ND | 22 | |
| 24) TRICHLOROFLUOROMETHANE | ND | 22 | |
| 25) XYLENES, TOTAL | ND | 22 | |

ND = NOT DETECTED
MDL = METHOD DETECTION LIMIT
* - REPORTED ON A DRY WEIGHT BASIS

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J = INDICATES AN ESTIMATED VALUE BELOW MDL
B = INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E = ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

884050007

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
BASE/NEUTRAL EXTRACTABLE ORGANICS SUMMARY

| | | DATA FILES | ANALYSIS DATES |
|---------------|---------------|-------------------------|----------------|
| | | ===== | ===== |
| CLIENT | : KILLAM | SAMPLE INITIAL : >F7651 | 07/22/92 |
| SAMPLE# | : E218992 | SAMPLE DIL. #1 : | |
| METHOD | : SW846 8270 | SAMPLE DIL. #2 : | |
| LEACH BATCH # | : TC0080 | LEACHED BLANK : >H4679 | 07/20/92 |
| LEACH SPIKE # | : E218794LS-3 | LEACHED SPIKE : >E4064 | 07/22/92 |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|----------|---------------------|----------------|-------------|-------|-------------------|-------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| D027 | 1,4-DICHLOROBENZENE | ND | 7.5 | 0.10 | ND | 68 | |
| D030 | 2,4-DINITROTOLUENE | ND | 0.13 | 0.10 | ND | 115 | |
| D036 | NITROBENZENE | ND | 2.0 | 0.10 | ND | 77 | |
| D032 | HEXACHLOROBENZENE | ND | 0.13 | 0.10 | ND | 95 | |
| D033 | HEXACHLOROBUTADIENE | ND | 0.5 | 0.10 | ND | 71 | |
| D034 | HEXACHLOROETHANE | ND | 3.0 | 0.10 | ND | 63 | |
| D038 | PYRIDINE | ND | 5.0 | 0.10 | ND | 49 | |

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
 ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
 MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
 B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
 L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
 H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
 RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.
 IF MDL EXCEEDS REGULATORY LEVEL FOR PYRIDINE, 2,4-DINITROTOLUENE,
 AND/OR HEXCHLOROBENZENE, THE MDL BECOMES THE REGULATORY LEVEL.

ANALYSIS REPORT FOR BASE NEUTRAL EXTRACTABLES BY GC/MS
(BFSCAN)

| | | | |
|--------------|--------------|-----------------------|--------------------------|
| | | <u>DATA FILES</u> | <u>ANALYSIS DATE</u> |
| CLIENT | : KILLAM | Initial | : >E4120 |
| LAB SAMPLE # | : E218992 | Dilution #1 | : 07/25/92 |
| MATRIX | : SOIL | Dilution #2 | : |
| METHOD | : SW846/8270 | | |

| <u>COMPOUND</u> | <u>RESULT (ug/kg)*</u> | <u>MDL (ug/kg)*</u> | <u>Q</u> |
|-----------------|----------------------------|-------------------------|----------|
| 1) NITROBENZENE | ND | 350 | |
| 2) PYRIDINE | ND | 350 | |

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT
* - REPORTED ON A DRY WEIGHT BASIS

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
ACID EXTRACTABLE ORGANICS SUMMARY

| | | | | | | | |
|---------------|---------------|----------------|----------|------------|----------|----------------|------------|
| CLIENT | : KILLAM | SAMPLE INITIAL | : >F7651 | DATA FILES | : >F7651 | ANALYSIS DATES | : 07/22/92 |
| SAMPLE# | : E218992 | SAMPLE DIL. #1 | : | | | | |
| METHOD | : SW846 8270 | SAMPLE DIL. #2 | : | | | | |
| LEACH BATCH # | : TC0080 | LEACHED BLANK | : >H4679 | | | 07/20/92 | |
| LEACH SPIKE # | : E218794LS-3 | LEACHED SPIKE | : >E4064 | | | 07/22/92 | |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|----------|-----------------------|----------------|-------------|------|-------------------|-------------------|---|
| D026 | CRESOL, total | ND | 200 | 0.10 | ND | 51 | |
| D037 | PENTACHLOROPHENOL | ND | 100 | 0.50 | ND | 93 | |
| D041 | 2,4,5-TRICHLOROPHENOL | ND | 400 | 0.10 | ND | 90 | |
| D042 | 2,4,6-TRICHLOROPHENOL | ND | 2.0 | 0.10 | ND | 91 | |

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.

ANALYSIS REPORT FOR ACID EXTRACTABLES BY GC/MS
(AFSCAN)

| | | | |
|--------------|--------------|--------------|-----------------|
| | | <u>DATA</u> | <u>ANALYSIS</u> |
| | | <u>FILES</u> | <u>DATE</u> |
| CLIENT | : KILLAM | Initial | : >E4120 |
| LAB SAMPLE # | : E218992 | Dilution #1 | : 07/25/92 |
| MATRIX | : SOIL | Dilution #2 | : |
| METHOD | : SW846 8270 | | |

| <u>COMPOUND</u> | <u>RESULT</u> <u>(ug/kg)*</u> | <u>MDL</u> <u>(ug/kg)*</u> | <u>Q</u> |
|-----------------|----------------------------------|-------------------------------|----------|
| 1) m-CRESOL | ND | 350 | |
| 2) o-CRESOL | ND | 350 | |
| 3) p-CRESOL | ND | 350 | |

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT
* - REPORTED ON A DRY WEIGHT BASIS

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

| SAMPLE No | COLLECTED | | | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | BY | |
| E218992 | 07/14/92 | 12:00 | DN | SOIL - LP71492, LARGE SOIL FILE HEXCEL, LODI, NJ |

| TEST DESCRIPTION | RESULT | MDL | UNITS | DATE | INIT |
|------------------|--------|-----|-------|------|------|
|------------------|--------|-----|-------|------|------|

PCB'S^A

| | | | | | |
|---------------|------|-----|-------|----------|-----|
| AROCHLOR 1016 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1221 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1232 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1242 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1248 | 3600 | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1254 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1260 | ND | 560 | UG/KG | 07/29/92 | PSB |

^A ELEVATED MDL DUE TO LOW SAMPLE WEIGHT.

ND = NOT DETECTED

UG/KG = PPB MG/KG = PPM

MDL = METHOD DETECTION LIMIT

ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
PRESIDENT

884050012



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

| SAMPLE No | COLLECTED | | | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | BY | |
| E218992 | 07/14/92 | 12:00 | DN | SOIL - LP71492, LARGE SOIL PILE HEXCEL, LODI, NJ |

| TCLP LEACHATE ANALYSIS | RESULT | EPA# | RL | MDL | UNITS | DATE | INIT |
|------------------------|--------|------|------|-------|-------|----------|------|
| ARSENIC, LEACHATE | <0.50 | D004 | 5.0 | 0.50 | MG/L | 07/17/92 | DDB |
| BARIUM, LEACHATE | <2.0 | D005 | 100 | 2.0 | MG/L | 07/17/92 | DDB |
| CADMIUM, LEACHATE | <0.005 | D006 | 1.0 | 0.005 | MG/L | 07/17/92 | DDB |
| CHROMIUM, LEACHATE | <0.010 | D007 | 5.0 | 0.010 | MG/L | 07/17/92 | DDB |
| LEAD, LEACHATE | <0.50 | D008 | 5.0 | 0.50 | MG/L | 07/17/92 | DDB |
| MERCURY, LEACHATE | <0.001 | D009 | 0.20 | 0.001 | MG/L | 07/29/92 | SMH |
| SELENIUM, LEACHATE | <0.50 | D010 | 1.0 | 0.50 | MG/L | 07/17/92 | DDB |
| SILVER, LEACHATE | <0.030 | D011 | 5.0 | 0.030 | MG/L | 07/21/92 | MEO |

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT
RL = REGULATORY LEVEL

VINCENT J. PUGLIESE
PRESIDENT

884050013



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT

| SAMPLE No | COLLECTED | | | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | BY | |
| E218992 | 07/14/92 | 12:00 | DN | SOIL - LP71492, LARGE SOIL PILE HEXCEL, LODI, NJ |

| TEST DESCRIPTION | RESULT | MDL | UNITS | DATE | INIT |
|---------------------------|--------|-----|-------|----------|------|
| CYANIDE REACTIVITY | <1.5 | 1.5 | MG/KG | 07/24/92 | KEG |
| IGNITABILITY (FLASHPOINT) | >200 | | DEG F | 07/30/92 | KEG |
| PETROLEUM HYDROCARBONS | 690 | 25 | MG/KG | 07/20/92 | MKR |
| SOLIDS, TOTAL PERCENT | 93 | 2.0 | % | 07/16/92 | GRT |
| SULFIDE REACTIVITY | <20 | 20 | MG/KG | 07/24/92 | SRT |
| pH | 6.2 | | SU | 07/15/92 | LM |

ND = NOT DETECTED
UG/KG = PPB MG/KG = PPM
MDL = METHOD DETECTION LIMIT
ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
PRESIDENT

884050014

**ACCUTEST**

2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
VOLATILE ORGANICS SUMMARY

| | | DATA FILES | ANALYSIS DATES |
|---------------|--------------|-------------------------|----------------|
| | | ===== | ===== |
| CLIENT | : KILLAM | SAMPLE INITIAL : >G0609 | 07/20/92 |
| SAMPLE# | : E218993 | SAMPLE DIL. #1 : | |
| METHOD | : SW846 8240 | SAMPLE DIL. #2 : | |
| LEACH BATCH # | : ZH0080 | LEACHED BLANK : >D3294 | 07/17/92 |
| LEACH SPIKE # | : E218794LS2 | LEACHED SPIKE : >A2798 | 07/22/92 |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|----------|----------------------|----------------|-------------|-------|-------------------|-------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| D018 | BENZENE | ND | 0.5 | 0.050 | ND | 86 | |
| D035 | 2-BUTANONE | ND | 200 | 0.10 | ND | 44 | |
| D040 | TRICHLOROETHYLENE | ND | 0.5 | 0.050 | ND | 101 | |
| D019 | CARBON TETRACHLORIDE | ND | 0.5 | 0.050 | ND | 112 | |
| D021 | CHLORO BENZENE | ND | 100 | 0.050 | ND | 95 | |
| D022 | CHLOROFORM | ND | 6.0 | 0.050 | ND | 95 | |
| D027 | 1,4-DICHLORO BENZENE | ND | 7.5 | 0.050 | ND | 106 | |
| D029 | 1,1-DICHLOROETHYLENE | ND | 0.7 | 0.050 | ND | 88 | |
| D028 | 1,2-DICHLOROETHANE | ND | 0.5 | 0.050 | ND | 102 | |
| D039 | TETRACHLOROETHYLENE | ND | 0.7 | 0.050 | ND | 94 | |
| D043 | VINYL CHLORIDE | ND | 0.2 | 0.10 | ND | 104 | |

* =RESULTS REPORTED IN mg/L

ND = NOT DETECTED

MDL= METHOD DETECTION LIMIT

NA = NOT APPLICABLE

(1) - RESULTS REPORTED FROM DILUTION #1

(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL

B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE

H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.



ACCUTEST
2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

ANALYSIS REPORT FOR VOLATILE ORGANICS BY GC/MS (VFSCAN)

| | | <u>DATA FILES</u> | <u>ANALYSIS DATE</u> |
|--------------|--------------|-----------------------|--------------------------|
| CLIENT | : KILLAM | Initial | : >03064 |
| LAB SAMPLE # | : E218993 | Dilution #1 | : 07/23/92 |
| MATRIX | : SOIL | Dilution #2 | : |
| METHOD | : SW846 8240 | | |

| | <u>COMPOUND</u> | <u>RESULT (ug/kg)*</u> | <u>MDL (ug/kg)*</u> | <u>Q</u> |
|-----|---------------------------------------|----------------------------|-------------------------|----------|
| 1) | ACETONE | ND | 11 | |
| 2) | BENZENE | ND | 5.5 | |
| 3) | N-BUTYL ALCOHOL | ND | 280 | |
| 4) | CARBON DISULFIDE | ND | 11 | |
| 5) | CARBON TETRACHLORIDE | ND | 5.5 | |
| 6) | CHLOROBENZENE | ND | 5.5 | |
| 7) | CYCLOHEXANONE | ND | 280 | |
| 8) | 1,2-DICHLOROBENZENE | 8.6 | 5.5 | |
| 9) | 2-ETHOXYETHANOL | ND | 1700 | |
| 10) | ETHYL ACETATE | ND | 11 | |
| 11) | ETHYLBENZENE | ND | 5.5 | |
| 12) | ETHYL ETHER | ND | 5.5 | |
| 13) | ISOBUTANOL | ND | 28 | |
| 14) | METHYLENE CHLORIDE | ND | 5.5 | |
| 15) | METHYL ETHYL KETONE | ND | 11 | |
| 16) | METHYL ISOBUTYL KETONE | ND | 11 | |
| 17) | 2-NITROPROPANE | ND | 28 | |
| 18) | TETRACHLOROETHYLENE | 26 | 5.5 | |
| 19) | TOLUENE | ND | 5.5 | |
| 20) | 1,1,1-TRICHLOROETHANE | ND | 5.5 | |
| 21) | 1,1,2-TRICHLOROETHANE | ND | 5.5 | |
| 22) | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ND | 5.5 | |
| 23) | TRICHLOROETHYLENE | 1.3 | 5.5 | J |
| 24) | TRICHLOROFLUOROMETHANE | ND | 5.5 | |
| 25) | XYLENES, TOTAL | ND | 5.5 | |

ND = NOT DETECTED

MDL= METHOD DETECTION LIMIT

* - REPORTED ON A DRY WEIGHT BASIS

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL

B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE

E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
BASE/NEUTRAL EXTRACTABLE ORGANICS SUMMARY

| | | DATA FILES | ANALYSIS DATES |
|---------------|---------------|-------------------------|----------------|
| | | ===== | ===== |
| CLIENT | : KILLAM | SAMPLE INITIAL : >F7652 | 07/22/92 |
| SAMPLE# | : E218993 | SAMPLE DIL. #1 : | |
| METHOD | : SW846 8270 | SAMPLE DIL. #2 : | |
| LEACH BATCH # | : TC0080 | LEACHED BLANK : >H4679 | 07/20/92 |
| LEACH SPIKE # | : E218794LS-3 | LEACHED SPIKE : >E4064 | 07/22/92 |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|----------|---------------------|----------------|-------------|-------|-------------------|-------------------|-------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| D027 | 1,4-DICHLOROBENZENE | ND | 7.5 | 0.10 | ND | 68 | |
| D030 | 2,4-DINITROTOLUENE | ND | 0.13 | 0.10 | ND | 115 | |
| D036 | NITROBENZENE | ND | 2.0 | 0.10 | ND | 77 | |
| D032 | HEXACHLOROBENZENE | ND | 0.13 | 0.10 | ND | 95 | |
| D033 | HEXACHLOROBUTADIENE | ND | 0.5 | 0.10 | ND | 71 | |
| D034 | HEXACHLOROETHANE | ND | 3.0 | 0.10 | ND | 63 | |
| D038 | PYRIDINE | ND | 5.0 | 0.10 | ND | 49 | |

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
 ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
 MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
 B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
 L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
 H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
 RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.
 IF MDL EXCEEDS REGULATORY LEVEL FOR PYRIDINE, 2,4-DINITROTOLUENE,
 AND/OR HEXCHLOROBENZENE, THE MDL BECOMES THE REGULATORY LEVEL.

ANALYSIS REPORT FOR BASE NEUTRAL EXTRACTABLES BY GC/MS
(BFSCAN)

| | | | |
|---------------|------------|-----------------------|--------------------------|
| | | <u>DATA FILES</u> | <u>ANALYSIS DATE</u> |
| CLIENT : | KILLAM | Initial : | >E4121 |
| LAB SAMPLE #: | E218993 | Dilution #1 : | |
| MATRIX : | SOIL | Dilution #2 : | |
| METHOD : | SW846/8270 | | 07/25/92 |

| <u>COMPOUND</u> | <u>RESULT (ug/kg)*</u> | <u>MDL (ug/kg)*</u> | <u>Q</u> |
|-----------------|----------------------------|-------------------------|----------|
| 1) NITROBENZENE | ND | 370 | |
| 2) PYRIDINE | ND | 370 | |

ND = NOT DETECTED
MDL= METHOD DETECTION LIMIT
* - REPORTED ON A DRY WEIGHT BASIS

(1) - RESULTS REPORTED FROM DILUTION #1
(2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E =ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE

884050018



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2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

TOXIC CHARACTERISTIC LEACHATE PROCEDURE
ACID EXTRACTABLE ORGANICS SUMMARY

| | | DATA FILES | ANALYSIS DATES |
|---------------|---------------|-------------------------|-------------------|
| CLIENT | : KILLAM | | |
| SAMPLE# | : E218993 | SAMPLE INITIAL : >E4115 | 07/24/92 |
| METHOD | : SW846 8270 | SAMPLE DIL. #1 : | |
| LEACH BATCH # | : TC0080 | SAMPLE DIL. #2 : | |
| LEACH SPIKE # | : E218794LS-3 | LEACHED BLANK : >H4679 | 07/20/92 |
| | | LEACHED SPIKE : >E4064 | 07/22/92 |

| EPA HW # | COMPOUND NAME | SAMPLE RESULT* | REG. LEVEL* | MDL* | LEACH BLANK RES.* | LEACH SPIKE % REC | Q |
|-------------|-----------------------|-------------------|----------------|------|-------------------------|-------------------------|---|
| D026 | CRESOL, total | ND | 200 | 0.10 | ND | 51 | |
| D037 | PENTACHLOROPHENOL | ND | 100 | 0.50 | ND | 93 | |
| D041 | 2,4,5-TRICHLOROPHENOL | ND | 400 | 0.10 | ND | 90 | |
| D042 | 2,4,6-TRICHLOROPHENOL | ND | 2.0 | 0.10 | ND | 91 | |

* =RESULTS REPORTED IN mg/L NA = NOT APPLICABLE
ND = NOT DETECTED (1) - RESULTS REPORTED FROM DILUTION #1
MDL= METHOD DETECTION LIMIT (2) - RESULTS REPORTED FROM DILUTION #2

QUALIFIERS (Q)

J =INDICATES AN ESTIMATED VALUE BELOW MDL
B =INCICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
L =VALUE CORRECTED FOR BIAS DETERMINED BY LEACHATE MATRIX SPIKE
H =EXCEEDS REGULATORY LEVEL FOR TOXICITY CHARACTERISTIC

NOTE : MDL MAY EXCEED REGULATORY LEVEL DUE TO SEVERITY OF SAMPLE MATRIX
RESULTING IN HIGH DILUTION AS IN WASTE ORGANIC SOLVENTS AND OILS.

884050019

ANALYSIS REPORT FOR ACID EXTRACTABLES BY GC/MS
(AFSCAN)

| | | | |
|--------------|--------------|--------------|-----------------|
| | | <u>DATA</u> | <u>ANALYSIS</u> |
| | | <u>FILES</u> | <u>DATE</u> |
| CLIENT | : KILLAM | Initial | : >E4121 |
| LAB SAMPLE # | : E218993 | Dilution #1 | : 07/25/92 |
| MATRIX | : SOIL | Dilution #2 | : |
| METHOD | : SW846 8270 | | |

| <u>COMPOUND</u> | <u>RESULT</u> <u>(ug/kg) *</u> | <u>MDL</u> <u>(ug/kg) *</u> | <u>Q</u> |
|-----------------|-----------------------------------|--------------------------------|----------|
| 1) m-CRESOL | ND | 370 | |
| 2) o-CRESOL | ND | 370 | |
| 3) p-CRESOL | ND | 370 | |

ND = NOT DETECTED
MDL = METHOD DETECTION LIMIT
* - REPORTED ON A DRY WEIGHT BASIS

QUALIFIERS (Q)

J = INDICATES AN ESTIMATED VALUE BELOW MDL
B = INDICATES COMPOUND FOUND IN THE ASSOCIATED BLANK AS WELL AS IN SAMPLE
E = ESTIMATED VALUE; EXCEEDS INSTRUMENT CALIBRATION RANGE



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ANALYSIS REPORT

| SAMPLE No | COLLECTED | | BY | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | | |
| E218993 | 07/14/92 | 12:00 | DN | SOIL - SP71492, SMALL SOIL PILE HEXCEL, LODI, NJ |

| TEST DESCRIPTION | RESULT | MDL | UNITS | DATE | INIT |
|--------------------|--------|-----|-------|----------|------|
| PCB'S ^A | | | | | |
| AROCHLOR 1016 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1221 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1232 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1242 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1248 | 7800 | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1254 | ND | 560 | UG/KG | 07/29/92 | PSB |
| AROCHLOR 1260 | ND | 560 | UG/KG | 07/29/92 | PSB |

^A ELEVATED MDL DUE TO LOW SAMPLE WEIGHT.

ND = NOT DETECTED

UG/KG = PPB MG/KG = PPM

MDL = METHOD DETECTION LIMIT

ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
PRESIDENT



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ANALYSIS REPORT

| SAMPLE No | COLLECTED | | | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | BY | |
| E218993 | 07/14/92 | 12:00 | DN | SOIL - SP71492, SMALL SOIL PILE HEXCEL, LODI, NJ |

| TCLP LEACHATE ANALYSIS | RESULT | EPA# | RL | MDL | UNITS | DATE | INIT |
|------------------------|--------|------|------|-------|-------|----------|------|
| ARSENIC, LEACHATE | <0.50 | D004 | 5.0 | 0.50 | MG/L | 07/17/92 | DDB |
| BARIUM, LEACHATE | <2.0 | D005 | 100 | 2.0 | MG/L | 07/17/92 | DDB |
| CADMIUM, LEACHATE | <0.005 | D006 | 1.0 | 0.005 | MG/L | 07/17/92 | DDB |
| CHROMIUM, LEACHATE | <0.010 | D007 | 5.0 | 0.010 | MG/L | 07/17/92 | DDB |
| LEAD, LEACHATE | <0.50 | D008 | 5.0 | 0.50 | MG/L | 07/17/92 | DDB |
| MERCURY, LEACHATE | <0.001 | D009 | 0.20 | 0.001 | MG/L | 07/29/92 | SMH |
| SELENIUM, LEACHATE | <0.50 | D010 | 1.0 | 0.50 | MG/L | 07/17/92 | DDB |
| SILVER, LEACHATE | <0.030 | D011 | 5.0 | 0.030 | MG/L | 07/21/92 | MEO |

UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT
RL = REGULATORY LEVEL

VINCENT J. PUGLIESE
PRESIDENT

884050022



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ANALYSIS REPORT

| SAMPLE No | COLLECTED | | | POINT OF COLLECTION |
|-----------|-----------|-------|----|---|
| | DATE | TIME | BY | |
| E218993 | 07/14/92 | 12:00 | DN | SOIL - SP71492, SMALL SOIL PILE HEXCEL, LODI, NJ |

| TEST DESCRIPTION | RESULT | MDL | UNITS | DATE | INIT |
|---------------------------|--------|-----|-------|----------|------|
| CYANIDE REACTIVITY | <1.5 | 1.5 | MG/KG | 07/24/92 | KEG |
| IGNITABILITY (FLASHPOINT) | >200 | | DEG F | 07/30/92 | KEG |
| PETROLEUM HYDROCARBONS | 830 | 25 | MG/KG | 07/20/92 | MKR |
| SOLIDS, TOTAL PERCENT | 89 | 2.0 | % | 07/16/92 | GRT |
| SULFIDE REACTIVITY | <20 | 20 | MG/KG | 07/24/92 | SRT |
| pH | 6.2 | | SU | 07/15/92 | LM |

UG/KG = PPB MG/KG = PPM
MDL = METHOD DETECTION LIMIT
ALL RESULTS REPORTED ON A DRY WEIGHT BASIS

VINCENT J. PUGLIESE
PRESIDENT

884050023

***Laboratory Analyses for
Basement Seepage Discharge
and MR-2 Forms***

APPENDIX B

884050024



**ALL-TES
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

June 3, 1992

Mr. Joe Ritchey
Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: Project No. 61012

Lab Project No. S-3068

Please note the following results for the One (1) Aqueous sample received on 5/27/92. All results are reported in mg/l (ppm) except for Ph.

| Analysis ID | Final Tank Effluent Water H-1 |
|-------------|-------------------------------|
|-------------|-------------------------------|

| | |
|--------|-------|
| BOD | 32.0 |
| COD | 8750 |
| T.S.S. | 4.0 |
| Ph | 7.492 |

By:

Irving Berkowitz
Laboratory Manager



**ALL-TEST
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-8887

Method 608 (PCB's)

Project No. 61012
Laboratory Project No. S-3068
Client Name: Heritage Remediation

Matrix: Water
Date Received: 5/27/92
Date Analyzed: 5/28/92

| Sample Location | Final Tank Effluent H-1 | MDL ug/l |
|-----------------|-------------------------|-------------|
| PCB-1016 | ND | 0.50 |
| PCB-1221 | ND | 0.50 |
| PCB 1232 | ND | 0.50 |
| PCB-1242 | ND | 0.50 |
| PCB-1248 | ND | 0.50 |
| PCB-1254 | ND | 0.50 |
| PCB-1260 | ND | 0.50 |

By:


Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected



**ALL-TEST
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Case Id. Hexcel #61012 Matrix: Water
Sample No. S-3081 Discharge Hose Dilution Factor: 5:1
Client Name: Heritage Rem./Eng. Date Analyzed: 6/04/92

| <u>COMPOUND</u> | <u>UG/L</u> | <u>MDL</u> |
|---------------------------|-------------|------------|
| Chloromethane | ND | 50 |
| Vinyl Chloride | ND | 50 |
| Bromomethane | ND | 50 |
| Chloroethane | ND | 50 |
| Trichlorofluoromethane | ND | 25 |
| 1,1-Dichloroethene | ND | 25 |
| Methylene Chloride | 1803.4 | 25 |
| Trans-1,2 Dichloroethene | ND | 25 |
| 1,1 Dichloroethane | ND | 25 |
| Chloroform | ND | 25 |
| 1,1,1-Trichloroethane | ND | 25 |
| Carbon Tetrachloride | ND | 25 |
| Benzene | ND | 25 |
| 1,2-Dichloroethane | ND | 25 |
| Trichloroethene | ND | 25 |
| 1,2-Dichloropropane | 19J | 25 |
| Bromodichloromethane | ND | 25 |
| Trans-1,3-Dichloropropene | ND | 25 |
| Toluene | 2J | 25 |
| Cis-1,3-Dichloropropene | ND | 25 |
| 1,1,2-Trichloroethane | ND | 25 |
| 2-Chloroethyl Vinyl Ether | ND | 25 |
| Tetrachloroethene | 9J | 25 |
| Dibromochloromethane | ND | 25 |
| Chlorobenzene | 62.64 | 25 |
| Ethylbenzene | ND | 25 |
| m&o Xylenes | ND | 50 |
| p Xylene | ND | 50 |
| Bromoform | ND | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 25 |



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LABORATORIES, INC.**

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Volatile Organic Analysis Data

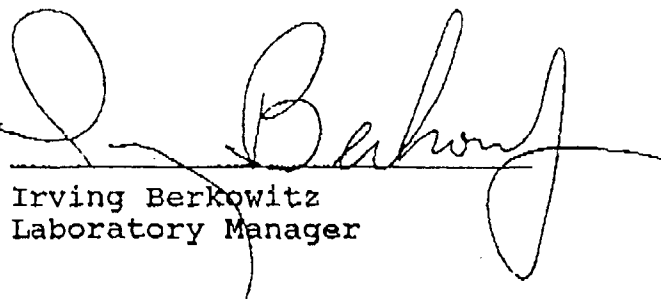
Case Id. Hexcel #61012 Matrix: Water
Sample No. S-3081 Discharge Hose Dilution Factor: 5:1
Client Name: Heritage Rem./Eng. Date Analyzed: 6/04/92

| <u>COMPOUND</u> | <u>UG/L</u> | <u>MDL</u> |
|---------------------|-------------|------------|
| 1,3-Dichlorobenzene | ND | 50 |
| 1,2-Dichlorobenzene | 5J | 50 |
| 1,4-Dichlorobenzene | 18J | 50 |

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

| <u>SURROGATE COMPOUNDS</u> | <u>RECOVERY</u> | <u>LIMITS</u> |
|----------------------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 97% | 70-121 |
| Toluene-d8 | 105% | 81-117 |
| 4-Bromofluorobenzene | 97% | 74-121 |

By:


Irving Berkowitz
Laboratory Manager



**ALL-TEST
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604

(201) 288-6511 FAX: (201) 288-6887

Method 608 (PCB's)

Internal Job No. P92-11
Laboratory Project No. S-3136
Client Name: Killam Associates

Matrix: Water
Date Received: 7/01/92
Date Analyzed 7/02/92

| Sample Location | Final Tank Effluent H-1 | MDL ug/l |
|-----------------|-------------------------|-------------|
| PCB-1016 | ND | 0.50 |
| PCB-1221 | ND | 0.50 |
| PCB 1232 | ND | 0.50 |
| PCB-1242 | ND | 0.50 |
| PCB-1248 | ND | 0.50 |
| PCB-1254 | ND | 0.50 |
| PCB-1260 | ND | 0.50 |

By:


Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected



**ALL-TEST
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604

(201) 288-6511 FAX: (201) 288-6887

July 7, 1992

Mr. Daniel Flatin
Killam Associates
27 Bleker Street
Milburn, New Jersey 07041-1008

Re: Hexel, Lodi, New Jersey
Internal Project No. P92-11

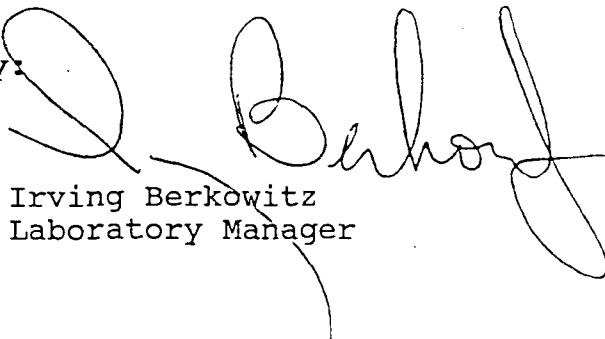
Laboratory Project No. S-3136

Please note the following results for the One (1) Aqueous sample received on 7/01/92. All results are reported in mg/l (ppm) except for Ph.

| Parameter | Final Tank Effluent Water H-1 Results |
|-----------|---------------------------------------|
|-----------|---------------------------------------|

| | |
|--------|-------|
| BOD | 236.8 |
| COD | 1125 |
| T.S.S. | 26.0 |
| Ph | 7.499 |

By:



Irving Berkowitz
Laboratory Manager



ALL-TEST ENVIRONMENTAL LABORATORIES, INC.

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604

(201) 288-6511

FAX: (201) 288-6887

Volatile Organic Analysis Data

Case Id. Hexcel

Sample No. S-3138 Discharge Hose

Client Name: Killam Associates

Matrix: Water

Dilution Factor: 50:1

Date Analyzed: 7/07/92

| <u>COMPOUND</u> | <u>UG/L</u> | <u>MDL</u> |
|---------------------------|-------------|------------|
| Chloromethane | ND | 500 |
| Vinyl Chloride | ND | 500 |
| Bromomethane | ND | 500 |
| Chloroethane | ND | 500 |
| Trichlorofluoromethane | ND | 250 |
| 1,1-Dichloroethene | ND | 250 |
| Methylene Chloride | 875.0 | 250 |
| Trans-1,2 Dichloroethene | ND | 250 |
| 1,1 Dichloroethane | ND | 250 |
| Chloroform | ND | 250 |
| 1,1,1-Trichloroethane | ND | 250 |
| Carbon Tetrachloride | ND | 250 |
| Benzene | ND | 250 |
| 1,2-Dichloroethane | ND | 250 |
| Trichloroethene | ND | 250 |
| 1,2-Dichloropropane | ND | 250 |
| Bromodichloromethane | ND | 250 |
| Trans-1,3-Dichloropropene | ND | 250 |
| Toluene | ND | 250 |
| Cis-1,3-Dichloropropene | ND | 250 |
| 1,1,2-Trichloroethane | ND | 250 |
| 2-Chloroethyl Vinyl Ether | ND | 250 |
| Tetrachloroethene | 1324.5 | 250 |
| Dibromochloromethane | ND | 250 |
| Chlorobenzene | 4328.8 | 250 |
| Ethylbenzene | ND | 250 |
| m&o Xylenes | ND | 500 |
| p Xylene | ND | 500 |
| Bromoform | ND | 250 |
| 1,1,2,2-Tetrachloroethane | ND | 250 |



**ALL-TEST
ENVIRONMENTAL
LABORATORIES, INC.**

60 Railroad Avenue, Hasbrouck Heights, N.J. 07604

(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Case Id. Hexcel
Sample No. S-3138 Discharge Hose
Client Name: Killam Associates

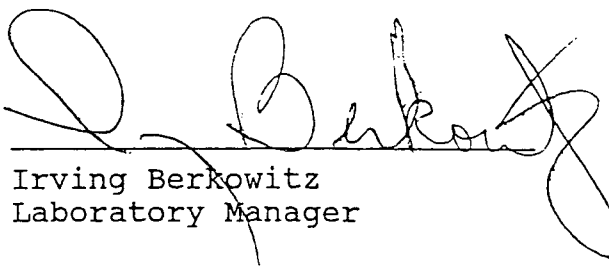
Matrix: Water
Dilution Factor: 50:1
Date Analyzed: 7/07/92

| <u>COMPOUND</u> | <u>UG/L</u> | <u>MDL</u> |
|---------------------|-------------|------------|
| 1,3-Dichlorobenzene | ND | 500 |
| 1,2-Dichlorobenzene | 269J | 500 |
| 1,4-Dichlorobenzene | 1931.9 | 500 |

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

| <u>SURROGATE COMPOUNDS</u> | <u>RECOVERY</u> | <u>LIMITS</u> |
|----------------------------|-----------------|---------------|
| 1,2-Dichloroethane-d4 | 81% | 70-121 |
| Toluene-d8 | 110% | 81-117 |
| 4-Bromofluorobenzene | 90% | 74-121 |

By:


Irving Berkowitz
Laboratory Manager